- 07/29/2004 THU 16:58 FAX



DECLARATION AND POWER OF

ATTORNEY FOR UTILITY OR DESIGN

Modified PTO/SB/01 (10-01)
Approved for use through 10/31/2002, OMB 0651-0032
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Attorney Docket Number

First Named Inventor

Poly-47

Stephen ARNOLD

PATENT APPLICATION	COMPLETE IF KNOWN				
(37 CFR 1.63)	Application Number	10/758,248			
Declaration Declaration	Filing Date	January 15, 2004			
Submitted OR Submitted after Initial with Initial Filling (surcharge	Art Unit	2878			
Filing (37 CFR 1.18 (e)) required)	Examiner Name	Not yet assigned			
As the below named inventor, I hereby declare that:					
My residence, mailing address, and citizenship are as stated below	next to my name.				
I believe I am the original and first inventor of the subject matter wi	hich is claimed and for whi	ch a patent is sought on the invention entitled:			
PERTURBATION APPROACH TO RESONANCE SHIFT OF WHISPERING GALLERY MODES IN A DIELECTRIC MICROSPHÈRE AS A PROBE OF A SURROUNDING MEDIUM					
(Title of the Inv	rention)				
the specification of which					
is attached hereto					
QR					
was filed on (MM/DD/YYYY) January 15, 2004	as United States A	pplication Number or PCT International			
Application Number 10/758,248 and was amended	d on (MMVDD/YYYY)	(if applicable).			
I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.					
I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.					
Thereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breader's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.					

Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

[Page 1 of 3]

Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-

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Modified PTO/SB/ID1 (10-01)
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DECLARATION AND POWER OF ATTORNEY
Utility or Design Patent Application

Power of Attorney:

As a named inventor, I hereby appoint:

John C. Pokotylo (Reg. No. 36,242) Michael P. Straub (Reg. No. 36,941) Ronald P. Straub (Reg. No. 48,941)

as my attorneys to prosecute this application and to transact all business in the United States Patent and Trademark Office in connection therewith.

Modified PTO/SB/01 (10-01) Approved for use through 10/31/2002, OMB 0851-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. **DECLARATION AND POWER OF ATTORNEY** Utility or Design Patent Application Direct all correspondence to: **Customer Number** 26479 or Bar Code Label Correspondence address below Name Straub & Pokotylo Address 620 Tinton Avenue, Bldg. B, 2nd Floor City Tinton Falls ZIP 07724-3260 State NJ Country USA Telephone (732) 542-9070 Fax (732) 542-9071 I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon. NAME OF SOLE OR FIRST INVENTOR: A petition has been filed for this unsigned inventor Given Name Family Name (first and middle [if any]) Stephen or Surname ARNOLD Inventor's Eglin an Signature State NY Residence: City New York USA Country Citizenship USA Mailing Address 1 Washington Square Village, Apt. # 13L City New York NY 10012 Country USA NAME OF SECOND INVENTOR: A petition has been filed for this unsigned inventor Given Name Family Name (first and middle [if any]) Iwao **TERAOKA** or Surname Inventor's Signature Residence: City Ryc NY Country USA Citizenship USA Mailing Address 32 Glen Oaks Drive City Rye State NY 10580 Country USA Additional inventors are being named on the __1_supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.

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DECLARATION AND POWER OT ATTORNEY

ADDITIONAL INVENTOR(S)
Supplemental Sheet
Page 4 of 4

Name of Additional Joint Inventor, if any: A petition has been filed for this unsigned inventor				nts unsigned inventor	
Given Name (first and middle [if any)		Family N	me or Sur	name
Frank		vo	LLMER		
Inventor's Signature SUMM / MI				Date 7/29/04	
Residence: City New York	State NY		Country USA		Citizenship Germany
Mailing Address 1230 York Avenue, Box 15	55				
Mailing Address					
City New York	State NY		ZIP 10021	Countr	y USA
Name of Additional Joint Inventor, if an	y:		A petition has been	filed for thi	unsigned inventor
Given Name (first and middle [if any])		Family	Name or S	umame
Inventor's Signature					Date
Residence: City	State		Country		Citizenship
Malling Address					·
Mailing Address			,		
City	State	ZIP Country		ntry	
Name of Additional Joint Inventor, if any:					
Given Name (first and middle [if any]]			Femily Na	me or Sun	nam•
Inventor's Signature Date					
Residence: City State			Country		Citizenship
Mailing Address					
Mailing Address					
City	State		ZIP	Co	umtry

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Atty. Doc. No.: Poly-47

ASSIGNMENT

WHEREAS, we, Stephen ARNOLD, ASSIGNOR

a citizen of the USA, residing at 1 Washington Square Village, Apt. # 13L, New York, NY 10012;

Iwao TERAOKA, ASSIGNOR

a citizen of the USA, residing at 32 Glen Oaks Drive, Rye, NY 10580; and

Frank VOLLMER, ASSIGNOR

a citizen of Germany, residing at 1230 York Avenue, Box 155, New York, NY 10021;

are the inventors of the invention in:

PERTURBATION APPROACH TO RESONANCE SHIFT OF WHISPERING GALLERY MODES IN A DIELECTRIC MICROSPHERE AS A PROBE OF A SURROUNDING MEDIUM

for which an application for a Patent of the United States

- was filed on January 15, 2004, as application serial number 10/758,248, or
- is filed herewith;

and WHEREAS, Polytechnic University, a corporation of New York, having a place of business at Office of Academic Affairs, 6 Metrotech Center, Brooklyn, NY 11201, ASSIGNEE

is desirous of obtaining the entire right, title and interest in, to and under the invention and the application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, WE, the ASSIGNORS, have sold, assigned, transferred and set

over, and by these presents do hereby sell, assign, transfer and set over, unto the ASSIGNEE, its successors, legal representatives and assigns, the entire right, title and interest in, to and under the invention, and the United States application and all divisions, renewals and continuations (including all continuation-in-part applications) thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models and designs which have been or may hereafter be filed for the invention or claim the benefit of the application or any right of priority to the application, in any and all countries including any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from the United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventor's certificates and designs which may be granted for the invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the ASSIGNEE, its successors, legal representatives and assigns, any facts known to us regarding the invention, and testify in any legal

proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for the invention in all countries.

The undersigned hereby grant(s) the law firm of Straub & Pokotylo the power to insert on this Assignment any further identification, including the application serial number, which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

IN TESTIMONY WHEREOF, I here 29 day of	ucy	
Ste	Stylin ausd phen Arnold, Assignor	
WITNESSED BY:		
IWAO TERAOKA		
32 Glen Oaks Dr.		
Rye NY 10570		
WITNESSED BY: <u>CAROL</u> CAMPBELL		
Name 6 Motouleah Ch De De		
Address Drodlyn, NV 11201	·	
CAROL A. CAMPBELL Notary Public, State of New York		
No. 01CA5073664 Qualified in Nassau County Commission Expires March 03, 20		

IN TESTIMONY WHEREOF, I hereunto set my hand and seal $\frac{29}{\text{day of}}$ day of $\frac{\text{July}}{\text{day of}}$, 2004.	this
Iwao Teraoka, Assignor	· · · · · ·
WITNESSED BY:	
STEPHEN ARMOLD	
NASH, SQ. VLC, 13L Address	
MEN YORK, NY 10012	
WITNESSED BY:	
CALOC CAMPBELL Name	
6 Metrotech Ctr. J.B.256 Address	
Brooklyn, NY 11201	
Carol A. Campbell	
CAROL A. CAMPBELL Notary Public, State of New York No. 01CA5073684 Qualified in Notary	
Qualified in Nassau County Commission Expires March 03, 20 04	

MONY WHEREOF	I hereunto	set my	hand and 2004.	seal this
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	rale		V & U/1	
	Frank Vollme	r, Assi	gnor	
			•	

WITNESSED BY:

STEPHEN ARMOLD

WASHING TON SQ. VCG. 13 C Address

NY NY 10012

WITNESSED BY:

MONA GOLDBERG Notary Public, State of New York No. 01GO4777875 Qualified in Kings County Commission Expires September 30, 2006